

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-52647-1

Client Project/Site: EMD Monthly O&M

For:

TRC Environmental Corp-Payne Firm

11231 Cornell Park Drive

Cincinnati, Ohio 45242

Attn: Curt Kugler



Authorized for release by:

7/10/2015 2:56:39 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Job ID: 240-52647-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: TRC Environmental Corp-Payne Firm

Project: EMD Monthly O&M

Report Number: 240-52647-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 6/30/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples EFFLUENT/062915 (240-52647-1) and TB01/062915 (240-52647-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/07/2015 and 07/08/2015.

Acetone was detected in method blank MB 240-188153/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample EFFLUENT/062915 (240-52647-1)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample EFFLUENT/062915 (240-52647-1) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 07/01/2015.

Sample EFFLUENT/062915 (240-52647-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

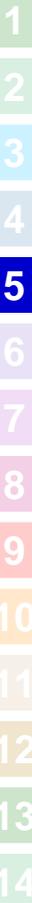
Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-52647-1	EFFLUENT/062915	Water	06/29/15 13:31	06/30/15 08:50
240-52647-2	TB01/062915	Water	06/29/15 00:00	06/30/15 08:50

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Detection Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: EFFLUENT/062915

Lab Sample ID: 240-52647-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	570		10	2.2	ug/L	5		8260B SIM	Total/NA
1,1,1-Trichloroethane	16	J	25	11	ug/L	25		8260B	Total/NA
1,1,2,2-Tetrachloroethane	36		25	5.5	ug/L	25		8260B	Total/NA
1,1-Dichloroethane	57		25	7.5	ug/L	25		8260B	Total/NA
1,2-Dichloroethane	520		25	5.8	ug/L	25		8260B	Total/NA
Acetone	600		250	24	ug/L	25		8260B	Total/NA
Chloroform	800		25	6.3	ug/L	25		8260B	Total/NA
Methylene Chloride	560		25	8.3	ug/L	25		8260B	Total/NA

Client Sample ID: TB01/062915

Lab Sample ID: 240-52647-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.6	J B	10	0.94	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: EFFLUENT/062915

Lab Sample ID: 240-52647-1

Date Collected: 06/29/15 13:31

Matrix: Water

Date Received: 06/30/15 08:50

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	570		10	2.2	ug/L			07/01/15 17:47	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		74 - 120					07/01/15 17:47	5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25	7.0	ug/L			07/08/15 16:34	25
1,1,1-Trichloroethane	16	J	25	11	ug/L			07/08/15 16:34	25
1,1,2,2-Tetrachloroethane	36		25	5.5	ug/L			07/08/15 16:34	25
1,1,2-Trichloroethane	ND		25	6.0	ug/L			07/08/15 16:34	25
1,1-Dichloroethane	57		25	7.5	ug/L			07/08/15 16:34	25
1,1-Dichloroethene	ND		25	11	ug/L			07/08/15 16:34	25
1,2,3-Trichloropropane	ND		25	11	ug/L			07/08/15 16:34	25
1,2-Dibromo-3-Chloropropane	ND		50	21	ug/L			07/08/15 16:34	25
1,2-Dichloroethane	520		25	5.8	ug/L			07/08/15 16:34	25
1,2-Dichloroethene, Total	ND		50	5.0	ug/L			07/08/15 16:34	25
1,2-Dichloropropane	ND		25	6.3	ug/L			07/08/15 16:34	25
1,4-Dioxane	ND		1300	1000	ug/L			07/08/15 16:34	25
2-Butanone	ND		250	13	ug/L			07/08/15 16:34	25
2-Hexanone	ND		250	12	ug/L			07/08/15 16:34	25
3-Chloro-1-propene	ND		50	21	ug/L			07/08/15 16:34	25
4-Methyl-2-pentanone (MIBK)	ND		250	25	ug/L			07/08/15 16:34	25
Acetone	600		250	24	ug/L			07/08/15 16:34	25
Acetonitrile	ND		500	100	ug/L			07/08/15 16:34	25
Acrolein	ND		500	110	ug/L			07/08/15 16:34	25
Acrylonitrile	ND		500	160	ug/L			07/08/15 16:34	25
Benzene	ND		25	8.8	ug/L			07/08/15 16:34	25
Bromodichloromethane	ND		25	7.3	ug/L			07/08/15 16:34	25
Bromoform	ND		25	14	ug/L			07/08/15 16:34	25
Bromomethane	ND		25	11	ug/L			07/08/15 16:34	25
Carbon disulfide	ND		25	9.5	ug/L			07/08/15 16:34	25
Carbon tetrachloride	ND		25	11	ug/L			07/08/15 16:34	25
Chlorobenzene	ND		25	6.3	ug/L			07/08/15 16:34	25
Chloroethane	ND		25	8.0	ug/L			07/08/15 16:34	25
Chloroform	800		25	6.3	ug/L			07/08/15 16:34	25
Chloromethane	ND		25	11	ug/L			07/08/15 16:34	25
Chloroprene	ND		50	6.5	ug/L			07/08/15 16:34	25
cis-1,2-Dichloroethene	ND		25	6.5	ug/L			07/08/15 16:34	25
cis-1,3-Dichloropropene	ND		25	12	ug/L			07/08/15 16:34	25
Dibromochloromethane	ND		25	11	ug/L			07/08/15 16:34	25
Dibromomethane	ND		25	11	ug/L			07/08/15 16:34	25
Dichlorodifluoromethane	ND		25	8.0	ug/L			07/08/15 16:34	25
Ethyl methacrylate	ND		25	11	ug/L			07/08/15 16:34	25
Ethylbenzene	ND		25	6.3	ug/L			07/08/15 16:34	25
Ethylene Dibromide	ND		25	8.0	ug/L			07/08/15 16:34	25
Iodomethane	ND		25	11	ug/L			07/08/15 16:34	25
Isobutanol	ND		1300	300	ug/L			07/08/15 16:34	25
Methacrylonitrile	ND		250	63	ug/L			07/08/15 16:34	25
Methyl methacrylate	ND		50	7.0	ug/L			07/08/15 16:34	25

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Client Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: EFFLUENT/062915

Lab Sample ID: 240-52647-1

Date Collected: 06/29/15 13:31

Matrix: Water

Date Received: 06/30/15 08:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	560		25	8.3	ug/L			07/08/15 16:34	25
Propionitrile	ND		250	50	ug/L			07/08/15 16:34	25
Styrene	ND		25	11	ug/L			07/08/15 16:34	25
Tetrachloroethene	ND		25	7.8	ug/L			07/08/15 16:34	25
Toluene	ND		25	5.8	ug/L			07/08/15 16:34	25
trans-1,2-Dichloroethene	ND		25	7.5	ug/L			07/08/15 16:34	25
trans-1,3-Dichloropropene	ND		25	14	ug/L			07/08/15 16:34	25
trans-1,4-Dichloro-2-butene	ND		25	14	ug/L			07/08/15 16:34	25
Trichloroethene	ND		25	5.5	ug/L			07/08/15 16:34	25
Trichlorofluoromethane	ND		25	12	ug/L			07/08/15 16:34	25
Vinyl acetate	ND		50	10	ug/L			07/08/15 16:34	25
Vinyl chloride	ND		25	7.3	ug/L			07/08/15 16:34	25
Xylenes, Total	ND		50	13	ug/L			07/08/15 16:34	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 125					07/08/15 16:34	25
4-Bromofluorobenzene (Surr)	80		61 - 120					07/08/15 16:34	25
Dibromofluoromethane (Surr)	103		79 - 120					07/08/15 16:34	25
Toluene-d8 (Surr)	85		80 - 120					07/08/15 16:34	25

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: TB01/062915

Lab Sample ID: 240-52647-2

Date Collected: 06/29/15 00:00

Matrix: Water

Date Received: 06/30/15 08:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			07/07/15 17:30	1
1,1,1-Trichloroethane	ND		1.0	0.44	ug/L			07/07/15 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			07/07/15 17:30	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			07/07/15 17:30	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/07/15 17:30	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			07/07/15 17:30	1
1,2,3-Trichloropropane	ND		1.0	0.44	ug/L			07/07/15 17:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			07/07/15 17:30	1
1,2-Dichloroethane	ND		1.0	0.23	ug/L			07/07/15 17:30	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			07/07/15 17:30	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			07/07/15 17:30	1
1,4-Dioxane	ND		50	40	ug/L			07/07/15 17:30	1
2-Butanone	ND		10	0.53	ug/L			07/07/15 17:30	1
2-Hexanone	ND		10	0.48	ug/L			07/07/15 17:30	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			07/07/15 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			07/07/15 17:30	1
Acetone	3.6	J B	10	0.94	ug/L			07/07/15 17:30	1
Acetonitrile	ND		20	4.0	ug/L			07/07/15 17:30	1
Acrolein	ND		20	4.5	ug/L			07/07/15 17:30	1
Acrylonitrile	ND		20	6.3	ug/L			07/07/15 17:30	1
Benzene	ND		1.0	0.35	ug/L			07/07/15 17:30	1
Bromodichloromethane	ND		1.0	0.29	ug/L			07/07/15 17:30	1
Bromoform	ND		1.0	0.56	ug/L			07/07/15 17:30	1
Bromomethane	ND		1.0	0.44	ug/L			07/07/15 17:30	1
Carbon disulfide	ND		1.0	0.38	ug/L			07/07/15 17:30	1
Carbon tetrachloride	ND		1.0	0.43	ug/L			07/07/15 17:30	1
Chlorobenzene	ND		1.0	0.25	ug/L			07/07/15 17:30	1
Chloroethane	ND		1.0	0.32	ug/L			07/07/15 17:30	1
Chloroform	ND		1.0	0.25	ug/L			07/07/15 17:30	1
Chloromethane	ND		1.0	0.44	ug/L			07/07/15 17:30	1
Chloroprene	ND		2.0	0.26	ug/L			07/07/15 17:30	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			07/07/15 17:30	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/15 17:30	1
Dibromochloromethane	ND		1.0	0.43	ug/L			07/07/15 17:30	1
Dibromomethane	ND		1.0	0.42	ug/L			07/07/15 17:30	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			07/07/15 17:30	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			07/07/15 17:30	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/07/15 17:30	1
Ethylene Dibromide	ND		1.0	0.32	ug/L			07/07/15 17:30	1
Iodomethane	ND		1.0	0.42	ug/L			07/07/15 17:30	1
Isobutanol	ND		50	12	ug/L			07/07/15 17:30	1
Methacrylonitrile	ND		10	2.5	ug/L			07/07/15 17:30	1
Methyl methacrylate	ND		2.0	0.28	ug/L			07/07/15 17:30	1
Methylene Chloride	ND		1.0	0.33	ug/L			07/07/15 17:30	1
Propionitrile	ND		10	2.0	ug/L			07/07/15 17:30	1
Styrene	ND		1.0	0.45	ug/L			07/07/15 17:30	1
Tetrachloroethene	ND		1.0	0.31	ug/L			07/07/15 17:30	1
Toluene	ND		1.0	0.23	ug/L			07/07/15 17:30	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/07/15 17:30	1

TestAmerica Canton

Client Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: TB01/062915

Lab Sample ID: 240-52647-2

Date Collected: 06/29/15 00:00

Matrix: Water

Date Received: 06/30/15 08:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			07/07/15 17:30	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.55	ug/L			07/07/15 17:30	1
Trichloroethene	ND		1.0	0.22	ug/L			07/07/15 17:30	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			07/07/15 17:30	1
Vinyl acetate	ND		2.0	0.41	ug/L			07/07/15 17:30	1
Vinyl chloride	ND		1.0	0.29	ug/L			07/07/15 17:30	1
Xylenes, Total	ND		2.0	0.52	ug/L			07/07/15 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		78 - 125		07/07/15 17:30	1
4-Bromofluorobenzene (Surr)	82		61 - 120		07/07/15 17:30	1
Dibromofluoromethane (Surr)	111		79 - 120		07/07/15 17:30	1
Toluene-d8 (Surr)	86		80 - 120		07/07/15 17:30	1

Surrogate Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (78-125)	BFB (61-120)	DBFM (79-120)	TOL (80-120)
240-52647-1	EFFLUENT/062915	108	80	103	85
240-52647-2	TB01/062915	120	82	111	86
LCS 240-188153/4	Lab Control Sample	102	99	95	93
LCS 240-188378/4	Lab Control Sample	101	102	96	95
MB 240-188153/6	Method Blank	107	83	102	84
MB 240-188378/6	Method Blank	116	84	101	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (74-120)
240-52647-1	EFFLUENT/062915	98
LCS 240-187595/4	Lab Control Sample	99
MB 240-187595/5	Method Blank	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-188153/6

Matrix: Water

Analysis Batch: 188153

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			07/07/15 13:37	1
1,1,1-Trichloroethane	ND		1.0	0.44	ug/L			07/07/15 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			07/07/15 13:37	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			07/07/15 13:37	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/07/15 13:37	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			07/07/15 13:37	1
1,2,3-Trichloropropane	ND		1.0	0.44	ug/L			07/07/15 13:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			07/07/15 13:37	1
1,2-Dichloroethane	ND		1.0	0.23	ug/L			07/07/15 13:37	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			07/07/15 13:37	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			07/07/15 13:37	1
1,4-Dioxane	ND		50	40	ug/L			07/07/15 13:37	1
2-Butanone	ND		10	0.53	ug/L			07/07/15 13:37	1
2-Hexanone	ND		10	0.48	ug/L			07/07/15 13:37	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			07/07/15 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			07/07/15 13:37	1
Acetone	1.19	J	10	0.94	ug/L			07/07/15 13:37	1
Acetonitrile	ND		20	4.0	ug/L			07/07/15 13:37	1
Acrolein	ND		20	4.5	ug/L			07/07/15 13:37	1
Acrylonitrile	ND		20	6.3	ug/L			07/07/15 13:37	1
Benzene	ND		1.0	0.35	ug/L			07/07/15 13:37	1
Bromodichloromethane	ND		1.0	0.29	ug/L			07/07/15 13:37	1
Bromoform	ND		1.0	0.56	ug/L			07/07/15 13:37	1
Bromomethane	ND		1.0	0.44	ug/L			07/07/15 13:37	1
Carbon disulfide	ND		1.0	0.38	ug/L			07/07/15 13:37	1
Carbon tetrachloride	ND		1.0	0.43	ug/L			07/07/15 13:37	1
Chlorobenzene	ND		1.0	0.25	ug/L			07/07/15 13:37	1
Chloroethane	ND		1.0	0.32	ug/L			07/07/15 13:37	1
Chloroform	ND		1.0	0.25	ug/L			07/07/15 13:37	1
Chloromethane	ND		1.0	0.44	ug/L			07/07/15 13:37	1
Chloroprene	ND		2.0	0.26	ug/L			07/07/15 13:37	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			07/07/15 13:37	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/15 13:37	1
Dibromochloromethane	ND		1.0	0.43	ug/L			07/07/15 13:37	1
Dibromomethane	ND		1.0	0.42	ug/L			07/07/15 13:37	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			07/07/15 13:37	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			07/07/15 13:37	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/07/15 13:37	1
Ethylene Dibromide	ND		1.0	0.32	ug/L			07/07/15 13:37	1
Iodomethane	ND		1.0	0.42	ug/L			07/07/15 13:37	1
Isobutanol	ND		50	12	ug/L			07/07/15 13:37	1
Methacrylonitrile	ND		10	2.5	ug/L			07/07/15 13:37	1
Methyl methacrylate	ND		2.0	0.28	ug/L			07/07/15 13:37	1
Methylene Chloride	ND		1.0	0.33	ug/L			07/07/15 13:37	1
Propionitrile	ND		10	2.0	ug/L			07/07/15 13:37	1
Styrene	ND		1.0	0.45	ug/L			07/07/15 13:37	1
Tetrachloroethene	ND		1.0	0.31	ug/L			07/07/15 13:37	1
Toluene	ND		1.0	0.23	ug/L			07/07/15 13:37	1

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-188153/6
Matrix: Water
Analysis Batch: 188153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/07/15 13:37	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			07/07/15 13:37	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.55	ug/L			07/07/15 13:37	1
Trichloroethene	ND		1.0	0.22	ug/L			07/07/15 13:37	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			07/07/15 13:37	1
Vinyl acetate	ND		2.0	0.41	ug/L			07/07/15 13:37	1
Vinyl chloride	ND		1.0	0.29	ug/L			07/07/15 13:37	1
Xylenes, Total	ND		2.0	0.52	ug/L			07/07/15 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 125		07/07/15 13:37	1
4-Bromofluorobenzene (Surr)	83		61 - 120		07/07/15 13:37	1
Dibromofluoromethane (Surr)	102		79 - 120		07/07/15 13:37	1
Toluene-d8 (Surr)	84		80 - 120		07/07/15 13:37	1

Lab Sample ID: LCS 240-188153/4
Matrix: Water
Analysis Batch: 188153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.97		ug/L		100	80 - 120
1,1,1-Trichloroethane	10.0	11.7		ug/L		117	77 - 123
1,1,1,2,2-Tetrachloroethane	10.0	8.95		ug/L		90	71 - 123
1,1,2-Trichloroethane	10.0	9.41		ug/L		94	80 - 120
1,1-Dichloroethane	10.0	9.52		ug/L		95	79 - 125
1,1-Dichloroethene	10.0	8.17		ug/L		82	76 - 124
1,2,3-Trichloropropane	10.0	9.74		ug/L		97	72 - 126
1,2-Dibromo-3-Chloropropane	10.0	10.1		ug/L		101	50 - 132
1,2-Dichloroethane	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethene, Total	20.0	18.4		ug/L		92	80 - 120
1,2-Dichloropropane	10.0	9.14		ug/L		91	78 - 124
1,4-Dioxane	200	200		ug/L		100	56 - 132
2-Butanone	20.0	21.6		ug/L		108	56 - 138
2-Hexanone	20.0	21.5		ug/L		108	55 - 141
3-Chloro-1-propene	10.0	9.52		ug/L		95	69 - 120
4-Methyl-2-pentanone (MIBK)	20.0	21.4		ug/L		107	64 - 135
Acetone	20.0	26.4		ug/L		132	34 - 148
Acrolein	50.0	41.6		ug/L		83	59 - 172
Acrylonitrile	100	102		ug/L		102	77 - 126
Benzene	10.0	9.02		ug/L		90	80 - 120
Bromodichloromethane	10.0	9.98		ug/L		100	80 - 120
Bromoform	10.0	9.33		ug/L		93	56 - 122
Bromomethane	10.0	12.6		ug/L		126	38 - 132
Carbon disulfide	10.0	8.61		ug/L		86	65 - 144
Carbon tetrachloride	10.0	11.3		ug/L		113	77 - 131
Chlorobenzene	10.0	9.40		ug/L		94	80 - 120
Chloroethane	10.0	12.5		ug/L		125	36 - 126
Chloroform	10.0	9.77		ug/L		98	80 - 120

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-188153/4
Matrix: Water
Analysis Batch: 188153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.25		ug/L		93	48 - 133
cis-1,2-Dichloroethene	10.0	9.03		ug/L		90	79 - 120
cis-1,3-Dichloropropene	10.0	9.48		ug/L		95	74 - 126
Dibromochloromethane	10.0	10.0		ug/L		100	74 - 120
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Dichlorodifluoromethane	10.0	11.0		ug/L		110	23 - 136
Ethyl methacrylate	10.0	10.8		ug/L		108	65 - 152
Ethylbenzene	10.0	9.61		ug/L		96	80 - 120
Ethylene Dibromide	10.0	9.69		ug/L		97	80 - 120
Iodomethane	10.0	9.40		ug/L		94	76 - 142
Isobutanol	250	261		ug/L		104	71 - 126
Methylene Chloride	10.0	9.67		ug/L		97	77 - 129
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
o-Xylene	10.0	9.88		ug/L		99	80 - 120
Styrene	10.0	9.97		ug/L		100	76 - 122
Tetrachloroethene	10.0	9.46		ug/L		95	78 - 121
Toluene	10.0	9.52		ug/L		95	80 - 120
trans-1,2-Dichloroethene	10.0	9.35		ug/L		93	80 - 124
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	75 - 131
trans-1,4-Dichloro-2-butene	10.0	3.34		ug/L		33	29 - 135
Trichloroethene	10.0	9.29		ug/L		93	80 - 121
Trichlorofluoromethane	10.0	10.6		ug/L		106	61 - 133
Vinyl acetate	10.0	10.2		ug/L		102	27 - 160
Vinyl chloride	10.0	9.19		ug/L		92	52 - 121
Xylenes, Total	20.0	20.1		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		78 - 125
4-Bromofluorobenzene (Surr)	99		61 - 120
Dibromofluoromethane (Surr)	95		79 - 120
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: MB 240-188378/6
Matrix: Water
Analysis Batch: 188378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			07/08/15 15:48	1
1,1,1-Trichloroethane	ND		1.0	0.44	ug/L			07/08/15 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			07/08/15 15:48	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			07/08/15 15:48	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/15 15:48	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			07/08/15 15:48	1
1,2,3-Trichloropropane	ND		1.0	0.44	ug/L			07/08/15 15:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			07/08/15 15:48	1
1,2-Dichloroethane	ND		1.0	0.23	ug/L			07/08/15 15:48	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			07/08/15 15:48	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			07/08/15 15:48	1

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-188378/6
Matrix: Water
Analysis Batch: 188378

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		50	40	ug/L			07/08/15 15:48	1
2-Butanone	ND		10	0.53	ug/L			07/08/15 15:48	1
2-Hexanone	ND		10	0.48	ug/L			07/08/15 15:48	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			07/08/15 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			07/08/15 15:48	1
Acetone	ND		10	0.94	ug/L			07/08/15 15:48	1
Acetonitrile	ND		20	4.0	ug/L			07/08/15 15:48	1
Acrolein	ND		20	4.5	ug/L			07/08/15 15:48	1
Acrylonitrile	ND		20	6.3	ug/L			07/08/15 15:48	1
Benzene	ND		1.0	0.35	ug/L			07/08/15 15:48	1
Bromodichloromethane	ND		1.0	0.29	ug/L			07/08/15 15:48	1
Bromoform	ND		1.0	0.56	ug/L			07/08/15 15:48	1
Bromomethane	ND		1.0	0.44	ug/L			07/08/15 15:48	1
Carbon disulfide	ND		1.0	0.38	ug/L			07/08/15 15:48	1
Carbon tetrachloride	ND		1.0	0.43	ug/L			07/08/15 15:48	1
Chlorobenzene	ND		1.0	0.25	ug/L			07/08/15 15:48	1
Chloroethane	ND		1.0	0.32	ug/L			07/08/15 15:48	1
Chloroform	ND		1.0	0.25	ug/L			07/08/15 15:48	1
Chloromethane	ND		1.0	0.44	ug/L			07/08/15 15:48	1
Chloroprene	ND		2.0	0.26	ug/L			07/08/15 15:48	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			07/08/15 15:48	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/08/15 15:48	1
Dibromochloromethane	ND		1.0	0.43	ug/L			07/08/15 15:48	1
Dibromomethane	ND		1.0	0.42	ug/L			07/08/15 15:48	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			07/08/15 15:48	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			07/08/15 15:48	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/08/15 15:48	1
Ethylene Dibromide	ND		1.0	0.32	ug/L			07/08/15 15:48	1
Iodomethane	ND		1.0	0.42	ug/L			07/08/15 15:48	1
Isobutanol	ND		50	12	ug/L			07/08/15 15:48	1
Methacrylonitrile	ND		10	2.5	ug/L			07/08/15 15:48	1
Methyl methacrylate	ND		2.0	0.28	ug/L			07/08/15 15:48	1
Methylene Chloride	ND		1.0	0.33	ug/L			07/08/15 15:48	1
Propionitrile	ND		10	2.0	ug/L			07/08/15 15:48	1
Styrene	ND		1.0	0.45	ug/L			07/08/15 15:48	1
Tetrachloroethene	ND		1.0	0.31	ug/L			07/08/15 15:48	1
Toluene	ND		1.0	0.23	ug/L			07/08/15 15:48	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/08/15 15:48	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			07/08/15 15:48	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.55	ug/L			07/08/15 15:48	1
Trichloroethene	ND		1.0	0.22	ug/L			07/08/15 15:48	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			07/08/15 15:48	1
Vinyl acetate	ND		2.0	0.41	ug/L			07/08/15 15:48	1
Vinyl chloride	ND		1.0	0.29	ug/L			07/08/15 15:48	1
Xylenes, Total	ND		2.0	0.52	ug/L			07/08/15 15:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		78 - 125		07/08/15 15:48	1

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-188378/6
Matrix: Water
Analysis Batch: 188378

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	84		61 - 120		07/08/15 15:48	1
Dibromofluoromethane (Surr)	101		79 - 120		07/08/15 15:48	1
Toluene-d8 (Surr)	87		80 - 120		07/08/15 15:48	1

Lab Sample ID: LCS 240-188378/4
Matrix: Water
Analysis Batch: 188378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	12.0		ug/L		120	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.21		ug/L		92	71 - 123
1,1,2-Trichloroethane	10.0	9.35		ug/L		93	80 - 120
1,1-Dichloroethane	10.0	9.33		ug/L		93	79 - 125
1,1-Dichloroethene	10.0	8.21		ug/L		82	76 - 124
1,2,3-Trichloropropane	10.0	9.93		ug/L		99	72 - 126
1,2-Dibromo-3-Chloropropane	10.0	10.3		ug/L		103	50 - 132
1,2-Dichloroethane	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethene, Total	20.0	18.2		ug/L		91	80 - 120
1,2-Dichloropropane	10.0	9.11		ug/L		91	78 - 124
1,4-Dioxane	200	199		ug/L		99	56 - 132
2-Butanone	20.0	20.7		ug/L		103	56 - 138
2-Hexanone	20.0	19.7		ug/L		99	55 - 141
3-Chloro-1-propene	10.0	8.44		ug/L		84	69 - 120
4-Methyl-2-pentanone (MIBK)	20.0	20.0		ug/L		100	64 - 135
Acetone	20.0	22.9		ug/L		114	34 - 148
Acrolein	50.0	45.7		ug/L		91	59 - 172
Acrylonitrile	100	101		ug/L		101	77 - 126
Benzene	10.0	8.98		ug/L		90	80 - 120
Bromodichloromethane	10.0	10.2		ug/L		102	80 - 120
Bromoform	10.0	9.63		ug/L		96	56 - 122
Bromomethane	10.0	12.3		ug/L		123	38 - 132
Carbon disulfide	10.0	8.62		ug/L		86	65 - 144
Carbon tetrachloride	10.0	11.6		ug/L		116	77 - 131
Chlorobenzene	10.0	9.43		ug/L		94	80 - 120
Chloroethane	10.0	11.7		ug/L		117	36 - 126
Chloroform	10.0	10.1		ug/L		101	80 - 120
Chloromethane	10.0	8.85		ug/L		88	48 - 133
cis-1,2-Dichloroethene	10.0	8.92		ug/L		89	79 - 120
cis-1,3-Dichloropropene	10.0	9.65		ug/L		96	74 - 126
Dibromochloromethane	10.0	10.2		ug/L		102	74 - 120
Dibromomethane	10.0	10.1		ug/L		101	80 - 120
Dichlorodifluoromethane	10.0	10.8		ug/L		108	23 - 136
Ethyl methacrylate	10.0	10.1		ug/L		101	65 - 152
Ethylbenzene	10.0	9.48		ug/L		95	80 - 120
Ethylene Dibromide	10.0	10.1		ug/L		101	80 - 120
Iodomethane	10.0	9.57		ug/L		96	76 - 142
Isobutanol	250	255		ug/L		102	71 - 126

TestAmerica Canton

QC Sample Results

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-188378/4
Matrix: Water
Analysis Batch: 188378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	9.51		ug/L		95	77 - 129
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
o-Xylene	10.0	9.81		ug/L		98	80 - 120
Styrene	10.0	9.88		ug/L		99	76 - 122
Tetrachloroethene	10.0	9.54		ug/L		95	78 - 121
Toluene	10.0	9.71		ug/L		97	80 - 120
trans-1,2-Dichloroethene	10.0	9.29		ug/L		93	80 - 124
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	75 - 131
trans-1,4-Dichloro-2-butene	10.0	5.29		ug/L		53	29 - 135
Trichloroethene	10.0	9.60		ug/L		96	80 - 121
Trichlorofluoromethane	10.0	11.3		ug/L		113	61 - 133
Vinyl acetate	10.0	11.9		ug/L		119	27 - 160
Vinyl chloride	10.0	8.68		ug/L		87	52 - 121
Xylenes, Total	20.0	20.0		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		78 - 125
4-Bromofluorobenzene (Surr)	102		61 - 120
Dibromofluoromethane (Surr)	96		79 - 120
Toluene-d8 (Surr)	95		80 - 120

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-187595/5
Matrix: Water
Analysis Batch: 187595

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.44	ug/L			07/01/15 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		74 - 120		07/01/15 11:56	1

Lab Sample ID: LCS 240-187595/4
Matrix: Water
Analysis Batch: 187595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	11.1		ug/L		111	59 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		74 - 120

TestAmerica Canton

QC Association Summary

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

GC/MS VOA

Analysis Batch: 187595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52647-1	EFFLUENT/062915	Total/NA	Water	8260B SIM	
LCS 240-187595/4	Lab Control Sample	Total/NA	Water	8260B SIM	
MB 240-187595/5	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 188153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52647-2	TB01/062915	Total/NA	Water	8260B	
LCS 240-188153/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-188153/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 188378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52647-1	EFFLUENT/062915	Total/NA	Water	8260B	
LCS 240-188378/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-188378/6	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: TRC Environmental Corp-Payne Firm
Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Client Sample ID: EFFLUENT/062915

Lab Sample ID: 240-52647-1

Date Collected: 06/29/15 13:31

Matrix: Water

Date Received: 06/30/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	188378	07/08/15 16:34	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		5	187595	07/01/15 17:47	SAM	TAL CAN

Client Sample ID: TB01/062915

Lab Sample ID: 240-52647-2

Date Collected: 06/29/15 00:00

Matrix: Water

Date Received: 06/30/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188153	07/07/15 17:30	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: TRC Environmental Corp-Payne Firm
 Project/Site: EMD Monthly O&M

TestAmerica Job ID: 240-52647-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15 *
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15 *
New Jersey	NELAP	2	OH001	09-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15 *
Texas	NELAP	6		08-31-15 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15 *

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-52647 Chain of Custody

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Information Client Contact: Steve Roifes Company: TRC Environmental Corp-Payne Firm Address: 11231 Cornell Park Drive City: Cincinnati State, Zip: OH, 45242 Phone: 513-489-2255 (Tel) 513-489-2533 (Fax) Email: steve@trcsolutions.com Project Name: EMD Monthly O&M Site: EMD		Sampler: Curt Fugler Lab P#1: O'Meara, Patrick J Phone: 513-489-2255 E-Mail: patrick.omeara@testamericainc.com		Carrier Tracking No(s): 240-28621-11349.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Standard		Analysis Requested			
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification EFFluent / 062915 TBO1 / 062915		Sample Date 6/24/15 6/24/15	Sample Time 1331 - 67	Sample Type (C=comp, G=grab) G G	Matrix (W=water, S=solid, G=wastewat, BT=Tissue, A=Air) Water Water Water Water Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by: Date: 6/24/15		Relinquished by: Date: 6/24/15		Method of Shipment:	
Relinquished by: Date: 6/29/15		Relinquished by: Date: 6/29/15		Date/Time: 6/29/15 1435 Company: TRC	
Relinquished by: Date: 6/29/15		Relinquished by: Date: 6/30/15		Date/Time: 6/30/15 860 Company: TA	
Relinquished by: Date: 6/29/15		Relinquished by: Date: 6/30/15		Date/Time: 6/30/15 860 Company: TA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Client TCC Site Name _____ Cooler unpacked by: [Signature]
 Cooler Received on 6-30-15 Opened on 6-30-15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____
 Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue-Ice Dry-Ice Water None

1. Cooler temperature upon receipt
 IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.6 °C
 IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC432654
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

15. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____